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ENDOCRINOLOGY INDEX

NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis and Metabolic Diseases

Edited by
N. Victoria Ragin

Developed with the support of Contract PH43-66-480 to Vanderbilt University under the direction of Grant W. Liddle, M.D.

Advisory Committee:

Gerald D. Aurbach, M.D.
Robert W. Bates, Ph.D.
Nicholas P. Christy, M.D.
Melvin M. Grumbach, M.D.
Joseph L. Izzo, M.D.
Seymour Lieberman, Ph.D.
Jacob Robbins, M.D.
Kenneth J. Ryan, M.D.

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis and Metabolic Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

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Identification and terminal distribution of the tubero-hypophyseal monoamine fibre systems in the rat by means of stereotaxic and

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Influence of hypophyseal intermediate lobe tissue and colloid on the reticuloendothelial cells of the liver. Body WH. Experientia 26:72-4, 15 Jan 70
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Antidiuretic principle in tuberculous lung tissue of a patient with pulmonary tuberculosis and hyponatremia. Vorherr H, et al. Ann Intern Med 72:383-7, Mar 70

II. Disorders of the Pituitary Gland

ACROMEGALY

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Partial purification of sulphation factor and thymidine factor from plasma. Wyk JJ van, et al.
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[Acromegaly] Matsuzaki S.
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METABOLISM

The relationship of the serum alkaline phosphatase to urinary hydroxyproline excretion in liver and bone diseases. Cerda JJ, et al.
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[Acromegaly is always evolutive. Is it a severe disease?] Bricaire H, et al.
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[Ultrasonic hypophysectomy] Arslan M.
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ADENOMA, BASOPHILIC

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[Clinico-anatomic parallels in Itsenko-Cushing disease] Zairat'iani VB, et al.
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ADENOMA, CHROMOPHOBE

COMPLICATIONS

Pituitary apoplexy. Lopez IA.
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DIAGNOSIS

Pituitary apoplexy. Lopez IA.
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ETIOLOGY

Influence of protein and caloric intake upon spontaneous tumor incidence of the anterior pituitary gland of the rat. Ross MH, et al.
J Nutr 100:177-89, Feb 70

PATHOLOGY

Influence of protein and caloric intake upon spontaneous tumor incidence of the anterior pituitary gland of the rat. Ross MH, et al.
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SURGERY

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ADENOMA, EOSINOPHILIC

COMPLICATIONS

[Association of eosinophilic pituitary adenoma with malignant neoplasms of nonneural origin] Pinto F.
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CRANIOPHARYNGIOMA

COMPLICATIONS

Antidiuretic effect and complications of chlorpropamide therapy in diabetes insipidus. Webster B, et al. J Clin Endocr 30:215-27, Feb 70
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[Which is the st approach to the pituitary gland?] Guiot G. Presse Med 78:209-10, 28 Jan 70 (Fre)

DIABETES INSIPIDUS

The use of rats with lesion-induced or hereditary hypothalamic diabetes insipidus for evaluating prolonged responses to antidiuretic hormone preparations. Kynčl J, et al. Acta Endocr (Kobenhavn) 60:369-79, Mar 69

Mechanism of chlorpropamide action in diabetes insipidus. Miller M, et al. J Clin Endocr 30:488-96, Apr 70

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Pathology and familial incidence of thyroiditis in a closed beagle colony. Fritz TE, et al.
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Exp Molec Path 12:14-30, Feb 70

III. *Thyroid Hormones, Precursors, Metabolites and Synthetic Analogs*

DIIODOTYROSINE

ANALYSIS

Proteolysis in thyroid slices: Effects of TSH, dibutyryl cyclic 3', 5'-AMP and prostaglandin E. Ahn CS, et al. Endocrinology 86:870-3, Apr 70
A case of a partial defect of the iodide trapping mechanism. Papadopoulos SN, et al. J Clin Endocr 30:302-7, Mar 70

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METHIMAZOLE

ANALYSIS

[The iodine complex of some drugs containing organically bound bivalent sulfur] Zöllner G, et al. Acta Pharm Hung 40:29-37, Jan 70 (Hun)

PHARMACODYNAMICS

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V. Related Topics

EXOPHTHALMOS

Relationships of thyrotropin to exophthalmic-producing substance. Purification of homogeneous glycoproteins containing both activities from [3H]-labeled pituitary extracts. Winand RJ, et al. J Biol Chem 245:967-75, 10 Mar 70
[Experimental and clinical studies on etiology, diagnosis and therapy of endocrine orbitopathy] Dardenne MU.
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III. Adrenal Cortex Hormones, Precursors, Metabolites and Synthetic Analogs

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DDD

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Plasma metyrapone, adrenocorticotropic hormone, cortisol, and deoxycortisol levels. Sequential changes during oral and intravenous metyrapone administration. Jubiz W, et al.
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[Chromatographic separation and identification of 3-hydroxy,4-methoxymandelic (iso-VMa) and 4-hydroxy,3-methoxymandelic (VMA) acids in the form of their periodic oxidation derivatives: isovanillin and vanillin. Presence of 3-hydroxy,4-methoxymandelic acid in human urine] Mathieu P, et al.
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I. *Physical and Functional Aspects*

GONADS

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II. Disorders of the Gonads

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Sex chromosomes and reproductive anatomy of some intersexual marsupials. Sharman GB, et al.
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LEYDIG CELL TUMOR

Leydig cell tumours of the ovary. Report of three cases. Allander E, et al. Acta Obstet Gynec Scand 48:433-9, 1969

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[A rare developmental defect of the genitourinary organs in a child] Kiselev AI. Vestn Khir Grekov 102:113-5, Jun 69 (Rus)

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Polycystic ovary induction in the rat and ovarian collagen. Laird CW, et al. Fertil Steril 21:244-6, Mar 70

COMPLICATIONS

[Pseudomyxoma peritonei. 3cases. Biochemical study of the mucoid substance in 1 case. Therapeutic possibilities] Roux M, et al. Presse Med 77:1975-8, 13 Dec 69 (Fre)
[Pneumoperitoneum for differential diagnosis of ovarian tumors] Vintergal'ter SF, et al. Vop Onkol 15:52-7, 1969 (Rus)

DIAGNOSIS

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 13-1970. New Eng J Med 282:676-81, 19 Mar 70

ETIOLOGY

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Pure gonadal dysgenesis and ovarian dysplasia in sisters. Boczkowski K. Amer J Obstet Gynec 106:626-8, 15 Feb 70
[Amenorrhea (1)] Baudet JH. Presse Med 77:1577-80, 22 Oct 69 (Fre)

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The diagnostic use of gonadotropins. McDonough PG, et al. Fertil Steril 21:126-33, Feb 70
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DRUG THERAPY

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PATHOLOGY

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PHYSIOPATHOLOGY

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[Value of cyto-hormonal smears in the conduct of androgenic treatment of women with breast cancer] Marsan C, et al. Presse Med 77:2033-6, 20 Dec 69 (Fre)
[The in vitro culture of gynecological carcinoma] Schmidt F, et al. Zbl Gynaek 91:529-31, 26 Apr 69 (Ger)
[A case of arrhenoblastoma of the ovary (arrhenoblastoma trabeculare ovarii)] Drążkowski H, et al. Nowotwory 19:233-7, Jul-Sep 69 (Pol)
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BLOOD

[Long-acting anabolic agent (clinibolin) as an adjuvant in tumor therapy] Kleibel F. Munchen Med Wschr 111:2452-4, 21 Nov 69 (Ger)

CHEMICALLY INDUCED

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Genesis of ascites in ovarian cancer. Hirabayashi K, et al. Amer J Obstet Gynec 106:492-7, 15 Feb 70
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Thio-tepa chemotherapy for ovarian carcinoma. Influence of remission and toxicity on survival. Wallach RC, et al. Obstet Gynec 35:278-86, Feb 70
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Chromosome and D.N.A. abnormalities in ovarian cystadenomas. Atkin NB, et al. Lancet 1:470, 28 Feb 70
Arrhenoblastoma in first cousins. Report of 2 cases. Goldstein DP, et al. Obstet Gynec 35:444-50, Mar 70

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[Surgical intervention in ovarian neoplasms (historical review)] Kotova DG. Vop Onkol 15:107-17, 1969 (Rus)

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[Histochemical features of radio-resistant and radio-sensitive tumors] Efimov ML, et al.
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[A quantitative histochemical study of DNA and total protein in the livers of rats with transplantable ovarian tumor (strain OIa)] Ismailov BI, et al.
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[The effect of testosterone propionate on the development of precancerous changes and ovarian tumors in irradiated mice] Gubareva AV.
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Genesis of ascites in ovarian cancer. Hirabayashi K, et al. Amer J Obstet Gynec 106:492-7, 15 Feb 70
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[Successful treatment of a recurrence of an ovarian granulosa cell tumor (1 case)] Livshits MA, et al.
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Hypoglycemia associated with serous cystadenocarcinoma of the ovary. O'Neill RT, et al.
Obstet Gynec 35:287-9, Feb 70
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URINE

Malignant lipid cell tumor of the ovary: clinical, biochemical and etiologic considerations. Lipsett MB, et al. J Clin Endocr 30:336-44, Mar 70

OVARY

ABNORMALITIES

Retrocaval ureter in a child with Turner's syndrome. Uson AC, et al. Amer J Dis Child 119:267-9, Mar 70
[An unusual malformation in the region of the female urogenital organs] Szczerbo A, et al. Zbl Gynaek 91:439-42, 5 Apr 69 (Ger)

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The plasma 11-hydroxycorticosteroids responseto insulin-induced hypoglycaemia in children and adolescents. Laron Z, et al. Acta Endocr (Kobenhavn) 60:451-62, Mar 69
[Current views on the onset of sexual maturity] Presl J, et al. Cesk Fysiol 18:279-89, Jan 70 (90 ref.) (Cze)
[Precocious puberty in a 14-month-old boy] Chmielowa M, et al. Endokr Pol 20:523-7, Nov-Dec 69 (Pol)
[Albright's syndrome in a 4- and one-half-year-old girl] Bartkowiak K, et al. Pediat Pol 45:83-6, Jan 70 (Pol)
[Macrogenitosomia in a 3-and a half-year old boy. Precocious puberty due to congenital adrenal hyperplasia associated with advanced bone age and hypospadias] Berker F, et al. Turk Tip Cem Mec 35:489-97, 1969 (Tur)

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[Mental characteristics of children with congenital adrenal cortex dysfunction] Lebedinskaia KS, et al. Zh Nevropat Psikhiat Korsakov 69:1558-62, 1969 (Rus)

DRUG THERAPY

[Precocious puberty in a 14-month-old boy] Chmielowa M, et al. Endokr Pol 20:523-7, Nov-Dec 69 (Pol)

SERTOLI CELL TUMOR

VETERINARY

A male pseudohermaphrodite dog with a Sertoli's cell tumor, mucometra, and vaginal glands. Norrdin RW, et al. J Amer Vet Med Ass 156:204-7, 15 Jan 70

SEX CHROMOSOME

ABNORMALITIES

Gonadal dysgenesis with lymphocytic thyroiditis and deletion of the long arm of the X chromosome. Melin K, et al. Acta Paediat Scand 58:625-31, Nov 69
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Human chromosome abnormalities as related to physical and mental dysfunction. Heller JH. J Hered 60:239-48, Sep-Oct 69 (93 ref.)
Chromosome studies in full-term, low-birth-weight, mentally retarded patients. Chen AT, et al. J Pediat 76:393-8, Mar 70
The appearance of iliac crest epiphysis. An indicator of gonadal dysfunction. Dietrich DE. Minn Med 52:1859-63, Dec 69
Hemizygous expression of glucose-6-phosphate dehydrogenase in erythrocytes of heterozygotes for the Lesch-Nyhan syndrome. Nyhan WL, et al. Proc Nat Acad Sci USA 65:214-8, Jan 70
The activity of the sex chromosomes in mammals. Lyon MF. Sci Progr (London) 58:117-30, Spring 70
[The XXXY-syndrome. Two new observations in young children and a literary review] Zollinger H. Helv Paediat Acta 24:589-99, Dec 69 (Ger)
[Men with underdeveloped genitalia] Boczkowski K. Ginek Pol 40:1163-8, Oct 69 (Pol)

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[The XXXY-syndrome. Two new observations in young children and a literary review] Zollinger H. Helv Paediat Acta 24:589-99, Dec 69 (Ger)
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Gonadal dysgenesis associated with a deleted X chromosome. Finley WH, et al. Amer J Ment Defic 74:583-7, Jan 70
Chromosome studies in primary sterility. Kadotani T, et al. Amer J Obstet Gynec 106:489-91, 15 Feb 70
[Masculine infertility and its causes] Stegner HE. Med Mschr 23:480-5, Nov 69 (Ger)
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Sole dermatoglyphics of XYY patients. Mavalwala J, et al. Amer J Phys Anthrop 32:145-6, Jan 70
Amniotic fluid cells; prenatal sex prediction and culture. Nelson MM, et al. Brit Med J 1:525-6, 28 Feb 70
An attempt to identify prisoners with an XYY chromosome complement by psychiatric and psychological means. Falek A, et al. J Nerv Ment Dis 150:165-70, Mar 70
A 48,XXXX female with mental retardation. Report of a case. Park IJ, et al. Obstet Gynec 35:248-52, Feb 70
Criminal psychopathology. Maughs SB. Progr Neurol Psychiat 24:407-13, 1969 (12 ref.)
[The XXXY-syndrome. Two new observations in young children and a literary review] Zollinger H. Helv Paediat Acta 24:589-99, Dec 69 (Ger)

ENZYMOLOGY

Cell population density and phenotypic expression of tissue culture fibroblasts from heterozygotes of Lesch-Nyhan's disease (inosinate pyrophosphorylase deficiency). Dancis J, et al. Biochem Genet 3:609-15, Dec 69

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[The XXXY-syndrome. Two new observations in young children and a literary review] Zollinger H. Helv Paediat Acta 24:589-99, Dec 69 (Ger)

FAMILIAL & GENETIC

Familial male pseudohermaphroditism. Walker AC, et al. Med J Aust 1:156-60, 24 Jan 70
Technique for identifying Y chromosomes in human interphase nuclei. Pearson PL, et al. Nature (London) 226:78-80, 4 Apr 70
[Autoradiographic studies on DNA-replication of human mitotic chromosomes] Abe T. Jap J Hum Genet 14:107-39, Sep 69 (Ger)

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[The occurrence of gonosome anomalies in pupils of schools for subnormal children in the West-Slovakian Region] Izakovič V, et al. Bratisl Lek Listy 53:72-80, 1970 (Slo)

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XY/XXY bone marrow mosaicism in three male

tricolor cats. Loughman WD, et al.
Amer J Vet Res 31:307-14, Feb 70

SEX DIFFERENTIATION DISORDERS

Sex and gender. Hill MM. Lancet 1:405-6, 21 Feb 70
Morphogenesis in Schizophyllum commune. 3. A mutation that blocks initiation of fruiting. Perkins JH, et al. Molec Gen Genet 106:151-4, 1970
[Current views on the onset of sexual maturity] Presl J, et al. Cesk Fysiol 18:279-89, Jan 70 (90 ref.) (Cze)
[Biology of sex in the human species] Hubinont PO.
Bruxelles Med 49:683-91, Nov 69 (Fre)
[Amenorrhea (1)] Baudet JH.
Presse Med 77:1577-80, 22 Oct 69 (Fre)
[Aggressive men with 2 chromosomes Y] Boczkowski K. Pol Tyg Lek 25:306-8, 23 Feb 70 (Pol)

CHEMICALLY INDUCED

Ambiguous external genitalia in the newborn and prepubescent child. Dmowski WP, et al.
JAMA 212:308-11, 13 Apr 70

CLASSIFICATION

[Classification of intersexuality] Boczkowski K.
Pol Tyg Lek 25:186-8, 2 Feb 70 (24 ref.) (Pol)

COMPLICATIONS

[Urinary tract abnormalities in chromatin-positive and chromatin-negative cases of gonadal dysgenesis syndrome] Krawczyński M, et al.
Endokr Pol 20:383-9, Sep-Oct 69 (Pol)
[Problems in congenital abnormalities of the female genitalia] Mateos Fournier M.
Cir Cir 37:563-81, Nov-Dec 69 (Spa)

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[Neuro-endocrine mechanism of transsexualism]
Vague J, et al. Gynec Prat 20:441-53, 1969 (Fre)

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[Cytohormonal vaginal effects of methoxy-ethinylestradiol and lynestrenol therapy in artificial menstrual cycle] Ladygin E, et al.
Endokr Pol 20:503-11, Nov-Dec 69 (Pol)

FAMILIAL & GENETIC

[Cytogenetic investigations in cases of abnormal sex differentiation and determination] Boczkowski K.
Ginek Pol 41:87-100, Jan 70 (Pol)

PHYSIOPATHOLOGY

[Male transsexualism: endocrine study apropos of a case] Philbert M. Gynec Prat 20:455-77, 1969 (Fre)

SURGERY

[Problems in congenital abnormalities of the female genitalia] Mateos Fournier M.
Cir Cir 37:563-81, Nov-Dec 69 (Spa)

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Ambiguous external genitalia in the newborn and prepubescent child. Dmowski WP, et al.
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STEIN-LEVENTHAL SYNDROME

Stein-Leventhal syndrome. Ellis RW.
J Med Soc New Jersey 66:653-4, Dec 69
[Amenorrhea (1)] Baudet JH.
Presse Med 77:1577-80, 22 Oct 69 (Fre)

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Neutral steroid sulfates in human ovarian vein blood. Kallioala K, et al. J Clin Endocr 30:533-5, Apr 70

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Laparoscopy. Smith BD, et al.
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The investigation of oligomenorrhoea and secondary amenorrhoea. Oystragh P.
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[Clomiphene in the treatment of patients with anovular sterility] Hansen KB, et al.
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ETHINYL ESTRADIOL

ADMINISTRATION & DOSAGE

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ETHISTERONE

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Changes in RNA-, DNA- and proteinsynthetic activity during the formation of analfin processes in ethisterone-treated females of Oryzias latipes. Uwa H.
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ETHYLESTRENOL

ADMINISTRATION & DOSAGE

Effects on platelet stickiness and fibrinolysis of phenformin combined with ethyloestrenol or stanozolol. Chakrabarti R, et al. Lancet 1:591-3, 21 Mar 70

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Histologic study of the uterine cervix during oral contraception with ethynodiol diacetate and mestranol. Carbia E, et al. Obstet Gynec 35:381-8, Mar 70

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PHARMACODYNAMICS

Intraocular pressure and outflow facility. Effect of estrogen and combined estrogen-progestin treatment in normal human eyes. Treister G, et al. Arch Ophthal (Chicago) 83:311-8, Mar 70

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Induction of hepatic delta-amino-levulinic acid synthetase by oral contraceptive steroids. Rifkind AB, et al. J Clin Endocr 30:330-5, Mar 70

Glucose metabolism during the menstrual cycle. Glucose tolerance during the one cycle and under the effect of ovulatory suppressants. Goldman JA, et al. Obstet Gynec 35:207-10, Feb 70

THERAPEUTIC USE

Measurement of plasma estradiol-17beta by competitive binding assay employing pregnancy plasma. Dufau ML, et al. J Clin Endocr 30:351-6, Mar 70

FLUOXYMESTERONE

PHARMACODYNAMICS

Leydig cell function in men with gonadotrophin-producing testicular tumors. Kirschner MA, et al. J Clin Endocr 30:504-11, Apr 70

THERAPEUTIC USE

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ADMINISTRATION & DOSAGE

Hexestrol choice estrogen. Karnaky KJ. Obstet Gynec 35:483, Mar 70

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Hexestrol choice estrogen. Karnaky KJ. Obstet Gynec 35:483, Mar 70

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Effect of hyperphysiological levels of hexestrol on the hepatic metabolism of nicotinate in the mouse. Dietrich LS, et al. Proc Soc Exp Biol Med 133:160-3, Jan 70

THERAPEUTIC USE

Hexestrol choice estrogen. Karnaky KJ. Obstet Gynec 35:483, Mar 70

HYDROXYMETHYLTESTOSTERONE

PHARMACODYNAMICS

Some studies on the effect of androgens on adrenal cortical function of rats. Brownie AC, et al. Endocrinology 86:1085-92, May 70

HYDROXYPREGNENOLONE

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ISOLATION & PURIFICATION

Studies on the metabolism of steroid hormones and their precursors by the human placenta at various stages of gestation. 3. In vitro metabolism of 3 beta, 17 alpha-dihydroxy-pregn-5-ene-20-one. Smith SW, et al. Steroids 15:421-32, Mar 70

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Studies on the metabolism of steroid hormones and their precursors by the human placenta at various stages of gestation. 3. In vitro metabolism of 3 beta, 17 alpha-dihydroxy-pregn-5-ene-20-one. Smith SW, et al. Steroids 15:421-32, Mar 70

HYDROXYPROGESTERONE

ADMINISTRATION & DOSAGE

In vivo metabolism of 15 alpha-hydroxyprogesterone in man. Giannopoulos G, et al. Biochemistry (Wash) 9:584-96, 3 Feb 70

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Formation of androgens from 17 alpha-hydroxyprogesterone-4-14C by rat adrenal homogenates. Kolena J. Arch Int Physiol 77:893-900, Dec 69

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[On medical therapy of prostate hypertrophy with a synthetic progestational hormone. (Preliminary note)] Frizzi V. Minerva Med 61:694-9, 21 Feb 70 (Ita)

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LYNESTRENOL

ADMINISTRATION & DOSAGE

[Clinical study of a mestranol lynestrenol combination of 1 mg. (preliminary report)] Mateos Cándano M, et al. Ginec Obstet Mex 25:647-53, Jun 69 (Spa)

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MEDROXYPROGESTERONE

ADMINISTRATION & DOSAGE

Endometrial regeneration in patients discontinuing oral contraceptives. Maqueo M, et al. Fertil Steril 21:224-9, Mar 70
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MEGESTROL

ADMINISTRATION & DOSAGE

Sustained release hormonal preparations. 5. Absorption of 6-methyl-17-alpha-acetoxypregna-4,6-diene-3,20-dione from polydimethylsiloxane implants in vivo. Benagiano G, et al. Acta Endocr (Kobenhavn) 63:29-38, Jan 70
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Urinary excretion of different corticosteroid-metabolites in oral contraception and pregnancy. Nielsen MD, et al.
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Sterolibrin and minithixen in the treatment of climacteric complaints. Tůmová Z, et al.
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MESTRANOL

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The length of the first three menstrual cycles after combined oral contraceptive treatment. Larsson-Cohn U.
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Cutaneous eruptions and in vitro lymphocyte hypersensitivity. Associated with oral contraceptives and mestranol. Savel H, et al.
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THERAPEUTIC USE

Urinary excretion of different corticosteroid-metabolites in oral contraception and pregnancy. Nielsen MD, et al.
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Sterolibrin and minithixen in the treatment of climacteric complaints. Tůmová Z, et al.
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METHANDROSTENOLONE

ANTAGONISTS & INHIBITORS

Prevention of Mammary gland defects in experimental congenital adrenal hyperplasia due to inhibition to 3 beta-hydroxysteroid dehydrogenase in rats. Neumann F, et al. Endocrinology 86:1169-71, May 70

THERAPEUTIC USE

The effect of methandienone (an anabolic steroid) on nitrogen metabolism following surgical trauma. Patnaik DN, et al. Indian J Med Res 57:1751-60, Sep 69
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METHENOLONE

THERAPEUTIC USE

[Therapy and prognosis of breast neoplasms in males] Gregl A. Bruns Beitr Klin Chir 217:295-9, Jun 69 (Ger)

METHYLTESTOSTERONE

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Effect of methyl testosterone on the ovary and secondary sex characters of the hypophysectomized juvenile guppy, Poecilia reticulata Peters. Pandey S. Canad J Zool 48:191-3, Jan 70
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NANDROLONE

ANALYSIS

Separation and determination of steroids in oil solution. IV. Glc analysis of anabolic, androgenic, estrogenic and progestational steroids. Cavina G, et al. J Chromatogr 47:186-94, 4 Mar 70

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Microbial hydroxylations. V. 11-alpha-hydroxylation of progesterone by cell-free preparations of Aspergillus ochraceus. Shibahara M, et al. Biochim Biophys Acta 202:172-9, 10 Feb 70
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PHARMACODYNAMICS

[The course of the process of regeneration of bone tissue under the effect of the anabolic steroid deka-durabolin] Pershin GG, et al. Ortop Travm Protez 30:35-9, May 69 (Rus)

THERAPEUTIC USE

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NORETHINDRONE

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PLACENTA

1. *Physical and Functional Aspects of the Placenta*

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PLACENTA

II. Disorders of the Placenta

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PLACENTAL HORMONES

A first conference and workshop on human placental lactogen. Obstet Gynec Survey 25:207-9, Mar 70

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A method of solid phase radioimmunoassay utilizing polypropylene discs. Crosignani PG, et al. J Clin Endocr 30:153-60, Feb 70

PLACENTAL LACTOGEN

A first conference and workshop on human placental lactogen. Obstet Gynec Survey 25:207-9, Mar 70

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PARATHYROID AND BONE

I. *Physical and Functional Aspects of the Parathyroid Glands*

PARATHYROID GLANDS

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II. Disorders of the Parathyroid Glands

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Association of parathyroid hyperplasia with neoplasia. Kramer WM. Amer J Clin Path 53:275-83, Feb 70

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III. *Parathyroid Hormone*

PARATHYROID HORMONE

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IV. Bone Metabolism and Related Topics

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ADVERSE EFFECTS

[Vitamin therapy: considerations on the side-effects and their treatment] Palleschi A, et al.
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[Vitamins in dairy products: natural milk, cream,

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NEUROENDOCRINOLOGY

I. *Physical and Functional Aspects*

AMYGDALOID BODY

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Content, synthesis and collectability of amino acids in various structures of the brains of rhesus monkeys. DeFeudis FV, et al. Brain Res 18:15-23, 17 Feb 70

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11. *Disorders of the Amygdaloid Body*

HYPOTHALAMUS

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III. Neuroendocrine System Hormones, Precursors, Metabolites, and Synthetic Analogs

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Comparison of pituitary-adrenocortical function in asthmatic patients given long-term corticosteroid therapy and in asthmatics who have not received adrenal steroids. Sundberg M, et al. Acta Allerg (Kobenhavn) 24:11-26, Mar 69

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ANTAGONISTS & INHIBITORS

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SECRETION

Increase of corticotropin-releasing activity in the rat hypothalamus following noxious stimuli. Hiroshige T, et al. Jap J Physiol 19:866-75, Dec 69

MELATONIN

ANALYSIS

Demonstration and effect of melatonin in fish. Fenwick JC. Gen Comp Endocr 14:86-97, Feb 70

BIOSYNTHESIS

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[Growth hormone secretion stimulating hormone]

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ADMINISTRATION & DOSAGE

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1. The Hypothalamic-Pituitary-Gonadal System

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Aron C, Roos J, Roos M (Inst. d'Histologie, Faculte de Medecine, F 67 Strasbourg, France)
(Environment and the estrous cycle of the rat)
Environnement et cycle oestral chez la ratte.
Exp Anim 2(4):275-286, 1969 (Fr)
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Assendorp R, Schuurs AHWM (Research Lab., N.V. Organon, Oss, Holland)
A survey of the initial clinical results obtained with an immunochemical test for measuring urinary LH-excretion.
Acta Endocr (Kobenhavn) 141:185-195, 1970

Baker BL (Dept. of Anatomy, Univ. of Michigan Medical School, Ann Arbor, Mich. 48104)
Studies on hormone localization with emphasis on the hypophysis.
J. Histochem Cytochem 18(1):1-8, 1970

Blobel R, Kostlin B (717 Schwabisch Hall, Ev. Diakonissenanstalt, Tubingen, Germany)
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Eine Methode zum quantitativen Nachweis von luteotroper Aktivitat.
Endokrinologie 55(5-6):334-340, 1970 (Ger)
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Measurement of plasma estradiol-17 beta by competitive binding assay employing pregnancy plasma.
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Fenwick JC (Dept. of Zoology, Univ. of Sheffield, Sheffield S10 2TM, England)
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Endocrinology 86(3):503-505, 1970

Eleftheriou BE, Desjardins C, Pattison ML (Jackson Lab., Bar Harbor, Maine 04609)
Effects of ovariectomy and ovarian hormones on RNA base ratios in specific rabbit brain areas.
J Endocr 46(3):331-340, 1970

Koyayashi F, Hara K, Miyake T (Shionogi Research Lab., Shionogi and Co., Ltd., Fukushima-ku, Osaka, Japan)
Further studies on the causal relationship between the secretion of estrogen and the release of luteinizing hormone in the rat.
Endocr Jap 16(5):501-506, 1969

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Inhibitory and facilitatory effects of steroids on the release of luteinizing hormone.
Endocr Jap 16(5):493-499, 1969

Lawton IE, Sawyer CH (Dept. of Anatomy, UCLA, Los Angeles, Calif. 90024)
Role of amygdala in regulating LH secretion in the adult female rat.
Amer J Physiol 218(3):622-626, 1970

Hiyake T (Shionogi Research Lab., Fukushima-ku, Osaka, Japan)
Causal relationship between ovarian steroids secretion and pituitary luteinizing hormone release in the rat estrous cycle.
Endocr Jap Suppl 1:83-92, 1969

Moore NW (Dept. of Animal Husbandry, Univ. of Sydney, McCaughey Memorial Inst. Jerilderie, N.S.W., Australia)
Fertilization in ewes treated with progesterone and quine anterior pituitary extract.
J Endocr 46(1):121-122, 1970

Presl J, Rohling S, Horsky J, Herzmann J (Inst. for the Care of Mother and Child, Prague, Czechoslovakia)
Changes in uptake of 3H-estradiol by the female rat brain and pituitary from birth to sexual maturity.
Endocrinology 86(4):899-902, 1970

Taleisnik S, Velasco ME, Astrada JJ (Inst. de Investigacion Medica, Mercedes y Martin Ferreyra, Cordoba, Argentina)
Effect of hypothalamic differentiation on the control of luteinizing hormone secretion.
J Endocr 46(1):1-7, 1970

Voogt JL, Chen CL, Meites J (Dept. of Physiology, Michigan State Univ., East Lansing, Mich. 48823)
Serum and pituitary prolactin levels before, during, and after puberty in female rats.
Amer J Physiol 218(2):396-399, 1970

Wade GN, Zucker I (Dept. of Psychology, Univ. of California, Berkeley, Calif.)
Hormonal modulation of responsiveness to an aversive taste stimulus in rats.
Physiol Behav 5(3):269-273, 1970

Yazaki I (Biological Inst., Faculty of Science, Niigata Univ., Niigata 951, Japan)
Role of the gonad in the functional development of the hypothalamo-hypophyseal system in neonatally gonadectomized rats as studied by behavior of intrasplenic ovarian grafts.
Annotat Zool Jap 43(1):19-22, 1970

Yussman MA, Taymor ML, Miyata J, Pheteplace C (Dept. of Obstetrics and Gynecology, Harvard Medical School, Boston, Massachusetts)
Serum levels of follicle-stimulating hormone, luteinizing hormone, and plasma progestins correlated with human ovulation.
Fertil Steril 21(2):119-125, 1970

H. Sex Behavior and Sex Differentiation

Aron C, Chateau D (Inst. d'Histologie, Faculte de Medecine, Strasbourg, France)
(New findings on the precocious acceptance behavior of the female rat during five-day cycles)
Donnees nouvelles sur le comportement precoce d'acceptation de la ratte au cours de cycles de 5 jours.
C R Soc Biol (Paris) 163(7):1699-1702, 1969 (Fr)

Aron C, Roos J, Asch G (Inst. d'Histologie, Faculte de Medecine, Strasbourg, France)
Effect of removal of the olfactory bulbs on mating behavior and ovulation in the rat.
Neuroendocrinology 6(2):109-117, 1970

Aron C, Roos J, Asch G (Inst. d'Histologie, Faculte de Medecine, Rue Kirschleger, 67-Strasbourg, France)
(The role played by the olfactory afferents in the control of copulatory behavior and in the determination of the time of ovulation in the rat)
Role joue par les afferences olfactives dans le controle du comportement copulatoire et dans le determinisme de la ponte ovulaire chez la ratte.
C R Soc Biol (Paris) 163(7):1578-1584, 1969 (Fr)

Beach FA (Dept. of Psychology, Univ. of California, Berkeley, Calif. 94720)
Coital behavior in dogs: VI. Long-term effects of castration upon mating in the male.
J Comp Physiol Psychol 70(3 Pt.2):1-32, 1970

Beach FA (Dept. of Psychology, Univ. of California, Berkeley, Calif.)
Coital behavior in dogs. IX. Sequelae to "coitus interruptus" in males and females.
Physiol Behav 5(3):263-268, 1970

Beach FA, Merari A (Dept. of Psychology, Univ. of California, Berkeley, Calif. 94720)
Coital behavior in dogs: V. Effects of estrogen and progesterone on mating and other forms of social behavior in the bitch.
J Comp Physiol Psychol 70(1 Pt.2):1-22, 1970

Bergquist EH (Dept. of Psychology, Univ. of South Carolina, Columbia, South Carolina 29208)
Output pathways of hypothalamic mechanisms for sexual, aggressive, and other motivated behaviors in opossum.
J Comp Physiol Psychol 70(3):389-398, 1970

Beyer C, McDonald P, Vidal H (Dept. de Investigacion Cientifica, Inst. Mexicano del Seguro Social, Apdo. Postal 73-032, Mexico 73, D.F., Mexico)
Failure of 5alpha-dihydrotestosterone to elicit estrous behavior in the ovariectomized rabbit.
Endocrinology 86(4):939-941, 1970

Bullock DW (Dept. of Obstetrics and Gynecology, Albany Medical College, Albany, New York 12208)
Induction of heat in ovariectomized guinea pigs by brief exposure to estrogen and progesterone.
Hormone Behav 1(2):137-143, 1970

Caggiula AR (Dept. of Psychology, Univ. of Pittsburgh, Pittsburgh, Pennsylvania 15213)
Analysis of the copulation-reward properties of posterior hypothalamic stimulation in male rats.
J Comp Physiol Psychol 70(3):399-412, 1970

Campbell AB, McGill TE (Dept. of Biopsychology, Univ. of Chicago, Chicago, Illinois)
Neonatal hormone treatment and sexual behavior in male mice.
Hormone Behav 1(2):145-150, 1970

Chester RV, Zucker I (Dept. Psychol., Univ. California, Berkeley, Calif.)
Influence of male copulatory behavior on sperm transport, pregnancy and pseudopregnancy in female rats.
Physiol Behav 5(1):35-43, 1970

Folman Y, Drori D (Dept. of Animal Science, The Volcani Inst. of Agricultural Research, Rehovot, Israel)
Effects of the frequency of mating on the adrogensensitive organs and sexual behavior.
Physiol Behav 4(6):1023-1026, 1969

Gerall AA, McCrady RE (Dept. of Psychology, Tulane Univ., New Orleans, Louisiana 70118)
Receptivity scores of female rats stimulated either manually or by males.
J Endocr 46(1):55-59, 1970

Green R, Luttge WG, Whalen RE (Gender Identity Research Clinic, Dept. of Psychiatry, Univ. of California, Los Angeles, Calif.)
Induction of receptivity in ovariectomized female rats by a single intravenous injection of estradiol-17beta.
Physiol Behav 5(2):137-141, 1970

Haard E, Larsson K (Larsson: Anatomy Inst., Fack, S 400 33 Goteberg 33, Sweden)
Effects of delaying intromissions on the male rat's mating behavior.
J Comp Physiol Psychol 70(3):413-416, 1970

Hart BL (Dept. of Anatomy, School of Veterinary Medicine, Univ. of California, Davis, California)
Mating behavior in the female dog and the effects of estrogen on sexual reflexes.
Hormone Behav 1(2):93-104, 1970

Le Boeuf BJ, Allen JL (Crown College, Univ. of California at Santa Cruz, Santa Cruz, California 95060)
Prolonged reinstatement of sexual behavior in castrated male rats with an ether of testosterone, SC-16148.
Hormone Behav 1(2):121-125, 1970

Le Boeuf BJ (Crown College, Univ. of California, Santa Cruz, California 95060)
Copulatory and aggressive behavior in the prepuberally castrated dog.
Hormone Behav 1(2):127-136, 1970

Maraud R, Coulaud H, Stoll R (Lab. de Biologie, Faculte de Medecine, Bordeaux, France)
(Role of a pituitary inhibitor on the production of a testicular inductor responsible for the regression of Muller's duct in the chick embryo)
Role inhibiteur de l'hypophyse sur l'elaboration de l'inducteur testiculaire responsable de la regression des canaux de Muller chez l'embryon de Poulet.
C R Soc Biol (Paris) 163(6):1365-1368, 1969 (Fr)

Margolese MS (2080 Century Park East, Los Angeles, California 90067)
Homosexuality: a new endocrine correlate.
Hormone Behav 1(2):151-155, 1970

McDonald PG, Vidal N, Beyer C (Dept. de Investigacion Cientifica, Inst. Mexicano del Seguro Social, Seccion de Neuroendocrinologia, Mexico 73, D.F.)
Different amounts of gonadal hormones.
1(2):161-172, 1970

Nadler RD (Dept. Psychiat., State Univ. New York, Downstate Medical Center, Brooklyn, N.Y.)
Biphasic influence of progesterone on sexual receptivity of spayed female rats.
Physiol Behav 5(1):95-97, 1970

Narbaitz R, De Robertis EM Jr. (Dept. of Histology, Faculty of Medicine, Univ. of Ottawa, Ottawa, Canada)
Steroid-producing cells in chick intersexual gonads.
Gen Comp Endocr 14(1):164-169, 1970

Saayman GS (Mammal Research Unit, Dept. of Zoology, Univ. Pretoria, Pretoria, South Africa)
The menstrual cycle and sexual behaviour in a troop of free ranging chacma baboons (Papio ursinus).
Folia Primat (Basel) 12(2):81-110, 1970

Segal DS, Whalen RE (Whalen: Dept. of Psychobiology, Univ. of California, Irvine, Calif. 92664)
Effect of chronic administration of p-chlorophenylalanine on sexual receptivity of the female rat.
Psychopharmacologia (Berlin) 16(5):434:438, 1970

Shillito EE (Agricultural Research Council Inst. of Animal Physiology, Babraham, Cambridge, England)
The effect of parachlorophenylalanine on social interaction of male rats.
Brit J Pharmacol 38(2):305-315, 1970

Vaughan MK, O'Steen WK, Vaughan GM (Dept. of Anatomy, Univ. Texas Medical Branch, Galveston, Texas)
Estrous cycle changes after prenatal and neonatal injections of melatonin in normal and androgen-sterilized female rats.
Neuroendocrinology 6(1):10-18, 1970
Also testosterone

Wade GN, Zucker I (Dept. of Psychology, Univ. of California, Berkeley, Calif.)
Taste preferences of female rats: modification by neonatal hormones, food deprivation and prior experience.
Physiol Behav 4(6):935-943, 1969

2. Biogenic Amines and Transmitters in the Nervous System

A. Books and Reviews

Axelrod J, Wurtman R (Lab. of Clinical Science, NIMH, Bethesda, Mr. 20014)
Biological rhythms and the pineal gland
Ment Health Rep 4:27-51, 1970
Discussion of roles of 5-HT and NA.

B. Methods

Quay WB (Dept. of Zoology, Univ. of California, Berkeley, Calif. 94720)
Reactive groups in hormone cytochemistry.
J Histochem Cytochem 18(1):30-37, 1970
Review article (104 ref.). The three classes of hormones discussed are: steroids, proteins, and monoamines.

Zaitseva AA, Pertsev AN, Reznikov IV, Cherenkevich SM
(Use of a fluorescence method for determining adrenaline and noradrenaline in animal tissues)
Zh Prikl Spektrosk 11(4):718-720, 1969 (Rus)
English abstract in Chemical Abstracts 72(9):39664f, 3/2/70

C. Localization

Cottrell GA, Osborne NN (Wellcome Lab. of Pharmacology, Gatty Marine Lab., Univ. of St. Andrews, St. Andrews, Scotland)
Subcellular localization of serotonin in an identified serotonin-containing neurone.
Nature (London) 225(5231):470-472, 1970

"We have examined in detail one particularly large serotonin-neurone, which is readily located in different preparations, in each cerebral ganglion of the slug Limax maximus. Results of the experiments show that serotonin is bound within small granulated vesicles of 40 to 100 mm in diameter and also, in certain conditions, in particles which resemble lysosomes."

D. Metabolic/Biochemical Studies

Klein DC, Berg GR, Weller J, Glinsmann W (Lab. of Biomedical Sciences, National Inst. of Child Health and Human Development, Bethesda, Md. 20014).
Pineal gland: dibutyryl cyclic adenosine monophosphate stimulation of labeled melatonin production.
Science 167(3926):1738-1740, 1970

"In organ cultures of intact rat pineal glands, $N^6O^{2'}$-dibutyryl adenosine 3',5'-monophosphate stimulates the conversion of tritiated tryptophan to tritiated melatonin, as does L-norepinephrine. Potential sites of stimulation of melatonin production by dibutyryl cyclic adenosine monophosphate are discussed."

E. Effects on Other Systems

Shimizu H, Creveling CR, Daly JW (Lab. of Chemistry, National Inst. of Arthritis and Metabolic Diseases, National Inst. of Health, Bethesda, Md. 20014)
The effect of histamines and other compounds on the formation of adenosine 3',5'-monophosphate in slices from cerebral cortex.
J Neurochem 17(3):441-444, 1970

Partial results indicate: "A variety of compounds structurally related to histamine were tested for their effect on formation of cyclic AMP. Histamine, N-methylhistamine and N,N-dimethylhistamine...were very active." Guinea pig and rabbit tissue used.

F. Chemical and Drug Effects

Kilfore L, Glick B (Poultry Science Dept., Miss. State Univ., State College, Miss. 39762)
Testosterone's influence on brain enzymes in the developing chick.
Poult Sci 49(1):16-22, 1970

Partial results indicate: "The most rapid increase in AChE began between the 15th and 18th day (of incubation) and continued to the 21st day. The difference in brain stem activity following 15 days incubation was inconsistent. Since AChE begins to rise very rapidly at this time, the variation may be due to the actual embryo ages."

G. Interaction with Hormones

Barry J (Lab. d'Histologie, Faculte de Medecine, Place de Verdun, 59-Lille, France)
(Morphological and experimental research on the monoaminergic cells of the hypothalamo-hypophyseal tract)
Recherches morphologiques et experimentales sur les cellules monoaminergiques du tractus hypothalamo-hypophysaire.
Ann Endocr (Paris) 30(6):768-775, 1969 (Fr)

The monoaminergic neurons of the hypothalamo-infundibular tract appear to play a part mainly in the control of the prehypophyseal gonadotropic secretion.
English summary.

Fenwich JC (Dept. of Zoology, Univ. of Sheffield, Sheffield, S10 2TN, England)
Demonstration and effect of melatonin in fish.
Gen Comp Endocr 14(1):86-97, 1970

"Melatonin (N-acetyl-5-methoxytryptamine) was identified in the pineal organ of the Pacific salmon Oncorhynchus tshawytscha ...The store of pineal melatonin in inmature salmon was approximately six times as great as that present in mature salmon...Intraperitoneal injections of melatonin (20 mg/fish for 50 days) into goldfish inhibited the increase in gonad size which accompanied increased daily light exposure in those animals which received placebo injections...Melatonin, produced or stored specifically within the pineal organ, appears to exert an inhibitory effect upon gonad functions, possibly by inhibiting the release of a gonadotropic factor."

Hyyppa N, Valavaara M (Dept. of Anatomy, Univ. of Turku, Turku 3, Finland)
The effect of castration and hypophysectomy on the content of noradrenaline and serotonin in the hypothalamus of the rat.
Experientia 26(2):193-194, 1970

(1) "No significant effect of castration was seen on the content of NA and 5-HT in the anterior or posterior hypothalamus (nor) in the cerebral cortex of male rats; (2) The hypophysectomy of long duration (3 months) caused a significant increase of the content of NA in the anterior and posterior hypothalamus of female rats, but it had no effect on the NA content in the cerebral cortex. Also the amount of 5-HT increased almost significantly in the posterior hypothalamus."

Kamberi IA, Dobayashi Y (Kobayashi: Worcester Foundation for Experimental Biology, Shrewsbury, Mass. 01545)

Monoamine oxidase activity in the hypothalamus and various other brain areas and in some endocrine glands of the rat during the estrus cycle.

J Neurochem 17(2):261-268, 1970

"Activity of MAO changed cyclically in the hypothalamus, amygdala, adrenals and ovaries...During the estrus cycle much lower levels of activity of MAO were demonstrated in other regions of the brain (frontal and lateral cerebral cortex), in the pituitary and in the uterus, none of which showed cyclical changes."

Kurachi K, Hirota K (Dept. of Obstetrics and Gynecology, Osaka Univ. Medical School, Osaka, Japan)

Catecholamine metabolism in rat's brain related with sexual cycle.

Endocr Jap Suppl 1:69-73, 1969

Partial results found were: significant change in diencephalon NA content in the following endocrinological conditions: (a) sexual cycle; (b) oophorectomy; (c) administration of estrogen after oophorectomy. It was concluded from experimental results "that the hypothalamic catecholomine may play an important role in gonadotropin secretion control."

Leonardelli J (Lab. d'Histologie, Faculte de Medecine, Place Verdun, 59-Lille, France)

(Hypothalamic catecholamines and control of the oestrous cycle in guinea pigs and rats)

Catecholamines hypothalamiques et controle du cycle oestral chez le cobaye et le rat.

Ann Endocr (Paris) 30(6):783-788, 1969 (Fr)

Systemic administration of dopamine to rats causes an interruption of LH. This result can be related to the fact that monoaminergic neurons of the ventral tuber show hyperactivity in guinea pigs during the pre-ovulatory period in the course of which the gonadotropic functions are stimulated. English summary.

Segal DS, Whalen RE (Whalen: Dept. of Psychobiology, Univ. of California, Irvine, Calif. 92664)

Effect of chronic administration of p-chlorophenylalanine on sexual receptivity of the female rat.

Psychopharmacologia (Berlin) 16(5):434-438, 1970

"It has been postulated that in the female rat sexual receptivity is inhibited by serotonin. This hypothesis was examined by comparing the effects of estrogen and progesterone with the effects of estrogen plus pCPA, a depletor of brain serotonin, on the induction of sexual receptivity. Progesterone was found to facilitate the effects of estrogen on the induction of receptivity. pCPA which induced low levels of brain serotonin did not facilitate estrogen induced receptivity. It was concluded that no direct relationship exists between brain serotonin and receptivity."

Schneider HPG, McCann SM (Dept. of Physiology, Univ. of Texas Southwestern Medical School, Dallas, Tex. 75235)
Luteinizing hormone-releasing factor discharged by dopamine in rats.
J Endocr 46(3):401-402, 1970
"The data presented indicate the existence of a dopaminergic transmission for the LRF secretory neurons."

Yano S, Kumagai A, Yamamura Y (Third Dept. of Internal Medicine, Osaka Univ. Hospital, Osaka, Japan)
Changes of oxytocin contents in the neurohypophysis of rats after norepinephrine treatment.
Endocr Jap Suppl 1:93-97, 1969
Partial results indicate that after NE treatment, the neurohypophysis oxytocin content was "found to decrease to about 70% of control value at 30 min. after treatment, and the repletion of oxytocin in the lobes was found in 180 min. after treatment."

3. Sleep Bulletin No. 54, April 3, 1970

A. Neurophysiology - General

Ghata J, Halberg F, Reinberg A, Siffre M (Reinberg: Lab. Physiologie Fondation A. de Rothschild, 29, rue Manin, F-75-Paris, France)
(Societally desynchronized circadian rhythms in sleep-wakefulness, rectal temperature and urinary 17-hydroxycorticosteroid excretion of two healthy mature human subjects)
Rythmes circadiens desynchronises du cycle social (17-hydroxycorticosteroides, temperature rectale, veille-sommeil) chez sujets adultes sains.
Ann Endocr (Paris) 30(2):245-260, 1969 (Fr)
English summary

4. Memo of Current Books in the Brain Sciences

A. BIS - 58

THE NEUROPSYCHOLOGY OF DEVELOPMENT; A SYMPOSIUM, ed. by R. L. Isaacson. New York, John Wiley, 1968. 177pp. Biomed WL 102 N397 1968
Contents:
Steroid hormones and the neuropsychology of development. E.S. Valenstein
Behavioral and anatomical sequelae of the infant limbic system. R.L. Isaacson, A.J. Nonneman and L.W. Schmaltz
Effects of induction age and size of frontal lobe lesions on learning in infant monkeys. H. F. Harlow, A.J. Blomquist, C. I. Thompson, K.A. Schiltz and M.K. Harlow
Sparing of function following localized brain lesions in neonatal monkeys. A. Kling and T.J. Tucker
The effect of age on the outcome of central nervous system disease in children. E.H. Lenneberg

APPENDIX

ADENOSINE CYCLIC 3',5'-PHOSPHATE

Drugs and the mechanism of insulin secretion. Kizer JS, et al. Advances Pharmacol 7:91-115, 1969 (135 ref.)
On the regulation of glycogen metabolism in Tetrahymena. Blum JJ.
Arch Biochem 137:65-74, Mar 70
Solubilization of myocardial adenyl cyclase. Levey GS.
Biochem Biophys Res Commun 38:86-92, 6 Jan 70
Desensitization of yeast phosphofructokinase to ATP-inhibition by a protein fraction from yeast. Atzpodien W, et al. Europ J Biochem 12:6-10, Jan 70
Interconversion in vitro of two forms of liver phosphorylase phosphatase. Merlevede W, et al. Europ J Biochem 11:499-502, Dec 69
The effect of chain length on the phosphorolysis of oligonucleotides by polynucleotide phosphorylase. Chou JY, et al. J Biol Chem 245:1005-11, 10 Mar 70
Kinetic analysis of the phosphorolysis of oligonucleotides by polynucleotide phosphorylase. Chou JY, et al. J Biol Chem 245:995-1004, 10 Mar 70
Steroid hormones: effects on adenyl cyclase activity and adenosine 3',5'-momophosphate in target tissues. Rosenfeld MG, et al. Science 168:253-5, 10 Apr 70

ADMINISTRATION & DOSAGE

Effects of exogenous adenosine 3',5'-monophosphate in man. 3. Increased response and tolerance to the dibutyryl derivative. Levine RA.
Clin Pharmacol Ther 11:238-43, Mar-Apr 70

ADVERSE EFFECTS

Effects of exogenous adenosine 3',5'-monophosphate in man. 3. Increased response and tolerance to the dibutyryl derivative. Levine RA.
Clin Pharmacol Ther 11:238-43, Mar-Apr 70

ANALYSIS

The influence of polyenes on cyclic 3',5'-AMP formation and glucose utilization in thyroid. Butcher FR, et al. Biochim Biophys Acta 192:409-19, 30 Dec 69
Isolation of a Golgi apparatus-rich fraction from rat liver. II. Enzymatic characterization and comparison with other cell fractions. Cheetham RD, et al. J Cell Biol 44:492-500, Mar 70
Parathyroid hormone, 3'5' AMP, Ca++, and renal gluconeogenesis. Nagata N, et al.
Proc Nat Acad Sci USA 65:368-74, Feb 70
Radioimmunoassay for the measurement of adenosine 3',5'-cyclic phosphate. Steiner AL, et al.
Proc Nat Acad Sci USA 64:367-73, Sep 69
[Control of ATP levels in stimulated pancreatic B-cells] Hellman B, et al.
Acta Diabet Lat [Suppl] 1:597-611, Sep 69 (Mul)

ANTAGONISTS & INHIBITORS

Conditions for the formation, partial purification and assay of an inhibitor of adenosine 3',5'-monophosphate. Murad F, et al.
Biochim Biophys Acta 192:430-45, 30 Dec 69
Inhibition by thyrocalcitonin of the mitogenic actions of parathyroid hormone and cyclic adenosine=3',5'-monophosphate on rat thymocytes. Macmanus JP, et al. Endocrinology 86:934-9, Apr 70

BIOSYNTHESIS

Catecholamines and metabolism of human adipose tissue. I. Comparison between in vitro effects of noradrenaline, adrenaline and theophylline on lipolysis in omental adipose tissue. Ostman J, et al.
Acta Med Scand 186:241-6, Oct 69
Importance of aerobic and anaerobic metabolism in renal concentration and dilution. Martinez-Maldonado M, et al. Amer J Physiol 218:1076-81, Apr 70
The effect of Ca2+ on the adenyl cyclase of calf brain. Bradham LS, et al.
Biochim Biophys Acta 201:250-60, 24 Feb 70
The influence of polyenes on cyclic 3',5'-AMP formation and glucose utilization in thyroid. Butcher FR, et al. Biochim Biophys Acta 192:409-19, 30 Dec 69
Response of chick oviduct adenyl cyclase to steroid hormones. Kissel JH, et al.
Endocrinology 86:1019-23, May 70
Inhibition of rat liver adenyl cyclase by adenosine and adenine nucleotides. Moriwaki K, et al.
Experientia 26:22, 15 Jan 70
Effect of sodium fluoride on the epinephrine response of liver and hepatoma adenyl cyclase. Pennington SN, et al. Experientia 26:139-40, 1970
Stimulation by growth hormone and dexamethasone of labeled cyclic adenosine 3',5'-monophosphate accumulation by white fat cells. Moskowitz J, et al.
J Biol Chem 245:1101-7, 10 Mar 70
Cyclic adenosine 3',5'-monophosphate formation in brain slices: stimulation by batrachotoxin, ouabain, veratridine, and potassium ions. Shimizu H, et al.
Molec Pharmacol 6:184-8, Mar 70
Effect of thyrocalcitonin on adenosine 3':5'-cyclic phosphate formation by rat kidney and bone. Murad F, et al. Proc Nat Acad Sci USA 65:446-53, Feb 70
Role of glucose in facilitating the acute steroidogenic action of adrenocorticotropic hormone (ACTH). Jones DJ Jr, et al.
Proc Soc Exp Biol Med 133:764-9, Mar 70
[Cyclic adenosine-3',5'-monophosphate and its biological role] Abakumova OIu, et al.
Vop Med Khim 16:3-19, Jan-Feb 70 (275 ref.) (Rus)

CHEMICAL SYNTHESIS

Radioimmunoassay for the measurement of adenosine 3',5'-cyclic phosphate. Steiner AL, et al.
Proc Nat Acad Sci USA 64:367-73, Sep 69

ISOLATION & PURIFICATION

Adrenal corticosteroid involvement in the control of liver glycogen phosphorylase activity. Schaeffer LD, et al. Biochim Biophys Acta 192:292-303, 18 Nov 69
Inhibition of rat liver adenyl cyclase by adenosine and adenine nucleotides. Moriwaki K, et al.
Experientia 26:22, 15 Jan 70

METABOLISM

Regulation of lipolysis in cardiac muscle: a system similar to the hormone-sensitive lipase of adipose tissue. Christian DR, et al.
Advances Enzym Regulat 7:71-82, 1969
Inhibition of toad bladder responses to neurohypophysial hormones by (4-leucine)-oxytocin. Chiu PJ, et al. Amer J Physiol 218:838-41, Mar 70
Probenecid inhibition of arginine vasotocin in snakes,

frogs, and on frog bladders in vitro. Dantzler WH, et al. Amer J Physiol 218:929-36, Mar 70
Comparative physiology: chromatophores. Fingerman M. Ann Rev Physiol 32:345-72, 1970 (134 ref.)
Adrenergic control of melanocytes. McGuire J. Arch Derm (Chicago) 101:173-80, Feb 70
Suppression of a pleiotropic mutant affecting glycerol dissimilation. Berman M, et al. Biochem Biophys Res Commun 38:272-8, 23 Jan 70
A specific binding site for 3',5' cyclic AMP in rat parotid microsomes. Salomon Y, et al. Biochem Biophys Res Commun 38:106-11, 6 Jan 70
Adrenal corticosteroid involvement in the control of liver glycogen phosphorylase activity. Schaeffer LD, et al. Biochim Biophys Acta 192:292-303, 18 Nov 69
Effect of glucagon on cyclic 3',5'-AMP, phosphorylase activity and contractility of heart muscle of the rat. Mayer SE, et al. Circ Res 26:225-33, Feb 70
Antilipolysis as a tool in the study of clinical and experimental diabetes. Lecture for the 1968 Minkowski Award. Carlson LA. Diabetologia 5:361-5, Dec 69 (23 ref.)
An analysis of the lipolysis in vitro of obese-hyperglycaemic and diabetic mice. Steinmetz J, et al. Diabetologia 5:373-8, Dec 69
Role of lecithin in the mechanism of TSH action. Macchia V, et al. Endocrinology 86:787-92, Apr 70
The activation of phosphorylase in neonatal rat liver. Cake MH, et al. Europ J Biochem 11:576-81, Dec 69
Purines and cortisone in lipid mobilization. Hill RB Jr, et al. Experientia 26:128-9, 1970
Adenyl cyclase in cardiac tissue. Drummond GI, et al. J Biol Chem 245:976-83, 10 Mar 70
Stimulation by growth hormone and dexamethasone of labeled cyclic adenosine 3',5'-monophosphate accumulation by white fat cells. Moskowitz J, et al. J Biol Chem 245:1101-7, 10 Mar 70
Adrenocorticotropin stimulation of 2-ketoglutarate oxidation by isolated rat epididymal adipose tissue. Mediation by cyclic adenosine 3',5'-monophosphate and relationship to lipid metabolism. Skosey JL. J Biol Chem 245:510-8, 10 Feb 70
Physiologic and pharmacologic regulation of bone resorption. Raisz LG. New Eng J Med 282:909-16, 16 Apr 70 (59 ref.)
Effects of glucose on glycogen synthetase, phosphorylase, and glycogen deposition in the perfused rat liver. Buschiazzo H, et al. Proc Nat Acad Sci USA 65:383-7, Feb 70
[Modification of hormone action, with special reference to interaction among pituitary, pancreatic and adrenocortical hormones] Nakagawa H. Protein (Tokyo) 14:1399-431, Dec 69 (297 ref.) (Jap)
[Thyroid hormone and catecholamines] Tomita K. Protein (Tokyo) 14:1432-41, Dec 69 (33 ref.) (Jap)
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PITUITARY GLAND

PHYSIOLOGY

[Function of diencephalon-hypophyseal system: 1969 Japan Medical Association prize winning thesis] Tsuji S. J Jap Med Ass 63:64-78, 1 Jan 70 (23 ref.) (Jap)

PITUITARY HORMONE RELEASING FACTORS

[Growth hormone secretion stimulating hormone] Sawano S, et al.
Clin Endocr (Tokyo) 17:977-84, Dec 69 (36 ref.) (Jap)

PITUITARY NEOPLASMS

COMPLICATIONS

Pituitary apoplexy. Lopez IA.
J Oslo City Hosp 20:17-27, Feb 70 (13 ref.)

PLACENTA

RADIOGRAPHY

[Radioisotope placentography (review of the foreign literature)] Kholin VV, et al.
Med Radiol (Moskva) 14:69-73, Feb 69 (26 ref.) (Rus)

RENIN

[Renin and angiotensin] Tomaszewski J, et al.
Postepy Biochem 16:21-32, 1970 (63 ref.) (Pol)

PHYSIOLOGY

[Maintenance of blood pressure, with special reference to renin-angiotensin system] Yamamura Y, et al.
Protein (Tokyo) 14:1374-86, Dec 69 (33 ref.) (Jap)

SECRETION

[Renin-angiotensin-aldosterone system from the clinical viewpoint] Siegenthaler W, et al.
Deutsch Med Wschr 95:411-8, 20 Feb 70 (138 ref.) (Ger)

[The renin--angiotensin--aldosterone system] Markov KhM. Kardiologiia 9:132-41, Sep 69 (Rus)

RICKETS

METABOLISM

The effect of vitamin D on absorption of calcium and the template activity of chromatin in intestines of rats and chicks. Nutr Rev 28:21-3, Jan 70

SEX CHROMOSOME ABNORMALITIES

Human chromosome abnormalities as related to physical and mental dysfunction. Heller JH.
J Hered 60:239-48, Sep-Oct 69 (93 ref.)

SEX DIFFERENTIATION DISORDERS

CLASSIFICATION

[Classification of intersexuality] Boczkowski K.
Pol Tyg Lek 25:186-8, 2 Feb 70 (24 ref.) (Pol)

SEX HORMONES

BIOSYNTHESIS

Biosynthesis of steroid hormones by the embryonic gonads of vertebrates. Haffen K.
Advances Morph 8:285-306, 1970 (106 ref.)

PHARMACODYNAMICS

[Sex differences of enzyme activities in different organs] Langecker H.
Arzneimittelforschung 19:1769-77, Nov 69 (130 ref.) (Ger)

PHYSIOLOGY

Reproduction. Armstrong DT.
Ann Rev Physiol 32:439-70, 1970 (274 ref.)
The evidence for luteolysin. Rowson LE.
Brit Med Bull 26:14-6, Jan 70 (8 ref.)

SOMATOTROPIN

[Human growth hormone] Illig R, et al.
Klin Wschr 47:118-23, 1 Feb 69 (159 ref.) (Ger)

PHYSIOLOGY

[Modification of hormone action, with special reference to interaction among pituitary, pancreatic and adrenocortical hormones] Nakagawa H.
Protein (Tokyo) 14:1399-431, Dec 69 (297 ref.) (Jap)

SECRETION

[Growth hormone secretion stimulating hormone] Sawano S, et al.
Clin Endocr (Tokyo) 17:977-84, Dec 69 (36 ref.) (Jap)

STEROIDS

METABOLISM

The investigation of steroid metabolism in early infancy. Mitchell FL, et al.
Advances Clin Chem 12:141-215, 1969
The influence of dietary fatty acids on steroid excretion. Nutr Rev 28:34-6, Feb 70 (9 ref.)

TESTIS

METABOLISM

Sites of hormone production in the mammalian testis, and their significance in the control of male fertility. Lacy D, et al. Brit Med Bull 26:87-91, Jan 70 (26 ref.)

PHYSIOLOGY

Morphogenetic aspects of acrosome formation and reaction. Dan JC.
Advances Morph 8:1-39, 1970 (77 ref.)

THIOUREA

The chemistry of carbohydrazide and thiocarbohydrazide. Kurzer F, et al. Chem Rev 70:111-49, Feb 70 (278 ref.)

THYROCALCITONIN

[Calcitonin, its properties and the role in calcium homeostasis] Geisler J. Postepy Biochem 16:3-19, 1970 (87 ref.) (Pol)

PHYSIOLOGY

Endocrine regulation of calcium metabolism. Copp DH. Ann Rev Physiol 32:61-86, 1970 (180 ref.)

SECRETION

[Calcitonin--thyrocalcitonin, hormone of the ultimobranchial body] Perraro F. Folia Endocr (Roma) 22:119-65, Apr 69 (Ita)

THYROID DISEASES

DIAGNOSIS

[Nuclear medicine and encocrinology] Oberdisse K, et al. Internist (Berlin) 10:325-39, Sep 69 (47 ref.) (Ger)

THYROID HORMONES

PHYSIOLOGY

[Thyroid hormone and catecholamines] Tomita K. Protein (Tokyo) 14:1432-41, Dec 69 (33 ref.) (Jap)

THYROID NEOPLASMS

Cancer of the thyroid gland. Beahrs OH, et al. Curr Probl Surg 1-38, Dec 69 (41 ref.)

VITAMIN D

Some recent results in the chemistry and stereochemistry of vitamin D and its isomers. Sanders GM, et al. Fortschr Chem Organ Naturst 27:131-57, 1969 (86 ref.)

PHARMACODYNAMICS

The effect of vitamin D on absorption of calcium and the template activity of chromatin in intestines of rats and chicks. Nutr Rev 28:21-3, Jan 70

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the subheadings; analysis, blood, cerebrospinal fluid, chemical synthesis, isolation & purification, and urine).

ACTIVATION ANALYSIS

Partial body in vivo activation analysis using epithermal and fast neutrons. Boddy K.
Phys Med Biol 15:156, Jan 70
*ACTIVATION ANALYSIS/ BONE AND BONES, analysis/ CALCIUM, analysis/ HUMAN/ HYPERTHYROIDISM, diagnosis/ *IODINE, analysis/ IODINE ISOTOPES/ METHODS/ *THYROID GLAND, analysis

Analysis of stable iodinated insulin using neutron activation techniques. Cardarelli JA, et al.
Phys Med Biol 15:157, Jan 70
*ACTIVATION ANALYSIS/ HUMAN/ IMMUNOASSAY/ *INSULIN, analysis/ INSULIN, metabolism/ *IODINE ISOTOPES, analysis/ METHODS

AUTOANALYSIS

A mechanized system for the determination of ATP + ADP, 2,3-diphosphoglycerate, glucose 1,6-diphosphate and lactate in small amounts of blood cells. Loos JA, et al.
Biochim Biophys Acta 201:185-95, 24 Feb 70
*ADENINE NUCLEOTIDES, blood/ ADENOSINE TRIPHOSPHATE, blood/ AUTOANALYSIS/ *ERYTHROCYTES, analysis/ FLUOROMETRY/ *GLYCEROPHOSPHATES, blood/ *HEXOSEPHOSPHATES, blood/ HUMAN/ INDICATORS AND REAGENTS/ *LACTATES, blood/ LYMPHOCYTES, analysis/ METALS/ METHODS

A semiautomated technic for radioimmunoassay. Double antibody assay of insulin. Haas ML, et al.
Diabetes 19:127-31, Feb 70
*AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY/ RADIOIMMUNOASSAY, instrumentation

Automated determination of urinary corticosteroids. Sparagana M, et al. Steroids 15:253-71, Mar 70
*ADRENAL CORTEX HORMONES, urine/ *AUTOANALYSIS/ CIRCADIAN RHYTHM/ COLORIMETRY/ COMPUTERS/ CORTISONE, urine/ DEHYDROEPIANDROSTERONE, urine/ FEMALE/ GLUCURONIDASE, metabolism/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, urine/ 17-KETOSTEROIDS, urine/ MALE/ METHODS/ SPECTRUM ANALYSIS/ URINE, enzymology

[Determination of serum protein-bound iodine using an auto analyzer] Ido H, et al.
Jap J Clin Path 18:67-9, Jan 70 (Jap)
*AUTOANALYSIS/ *BLOOD PROTEINS, analysis/ *IODINE, blood/ METHODS/ PROTEIN BINDING/ RESINS, pharmacodynamics

INSTRUMENTATION

A semiautomated technic for radioimmunoassay. Double antibody assay of insulin. Haas ML, et al.
Diabetes 19:127-31, Feb 70
*AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY/ RADIOIMMUNOASSAY, instrumentation

BIOLOGICAL ASSAY

Different slopes of the dose-response curves of human and bovine TSH in the McKenzie bioassay. Hershman JM. Endocrinology 86:1004-7, May 70
ANIMAL EXPERIMENTS/ *BIOLOGICAL ASSAY/ CATTLE/ HUMAN/ IODINE ISOTOPES, blood/ METHODS/ MICE/ PITUITARY GLAND, analysis/ *THYROTROPIN, administration & dosage/ THYROTROPIN, analysis/ THYROTROPIN, isolation & purification/ *THYROTROPIN, standards

A radioimmunoassay for rhesus monkey luteinizing hormone (RhLH). Monroe SE, et al.
Endocrinology 86:1012-8, May 70
BIOLOGICAL ASSAY/ CASTRATION/ CHLORAMINES/ CHROMATOGRAPHY, ION EXCHANGE/ FSH, analysis/ FSH, blood/ GEL FILTRATION/ GONADOTROPINS, CHORIONIC, blood/ GUINEA PIGS/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ LH, analysis/ *LH, blood/ LH, standards/ METHODS/ *MONKEYS/ PITUITARY GLAND, analysis/ RABBITS/ *RADIOIMMUNOASSAY/ THYROTROPIN, analysis

Immunological cross-reactivity between monkey and human thyroid stimulating hormone as determined by radioimmunoassay: a rapid procedure for purifying labeled 125I-TSH. Wherry FE, et al.
Endocrinology 86:769-73, Apr 70
ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CASTRATION/ FASTING/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, urine/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ METHODS/ MONKEYS/ *RADIOIMMUNOASSAY/ *THYROTROPIN, blood/ THYROTROPIN, isolation & purification/ THYROXINE, pharmacodynamics

A micromethod for the determination of serum thyroxine: studies of serum thyroxine concentrations and thyroxine binding in rat serum. Dalrymple DE, et al. J Lab Clin Med 75:325-35, Feb 70
ANIMAL EXPERIMENTS/ BARBITURATES, administration & dosage/ BIOLOGICAL ASSAY/ IODINE ISOTOPES, DIAGNOSTIC/ METHODS/ RATS/ THYROTROPIN, blood/ *THYROXINE, blood/ *THYROXINE-BINDING PROTEIN

Chemical quantification of melanophore stimulating substances using polyacrylamide gel disc electrophoresis. Preslock JP, et al.
Life Sci 9:215-28, 22 Feb 70
ACRYLATES/ ADRENAL GLANDS, metabolism/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ DARK ADAPTATION/ *ELECTROPHORESIS, DISK/ FROGS/ GELS/ IN VITRO/ LIGHT/ MALE/ METHODS/ *MSH, analysis/ PITUITARY GLAND, analysis/ POLYMERS/ SKIN, metabolism

See also pages 254 - 255.

CENTRIFUGATION

Radioimmunoassay of plasma estrone and estradiol. Mikhail G, et al. Steroids 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY FORMATION/ ANTIGEN-ANTIBODY REACTIONS/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ COLD/ *ESTRADIOL, blood/ ESTRADIOL, pharmacodynamics/ *ESTRONE, blood/ ESTRONE, pharmacodynamics/ FEMALE/ FSH, blood/ GONADOTROPINS, blood/ HYDROGEN-ION CONCENTRATION/ LH, blood/ MENSTRUATION/ METHODS/ PROTEIN BINDING/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SHEEP/ TEMPERATURE/ TIME FACTORS/ TRITIUM

[Modification of the Hales-Randle procedure for the radioimmunoassay of insulin] Quabbe HJ. Diabetologia 5:101-7, Apr 69 (Ger)
ANIMAL EXPERIMENTS/ CENTRIFUGATION/ DOGS/ ENGLISH ABSTRACT/ FILTRATION/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY

CHEMISTRY

A new method for evaluation of urinary estriol determinations. Nelson GH. Amer J Obstet Gynec 106:649-55, Mar 70
CHEMISTRY/ DEHYDROEPIANDROSTERONE/ ESTRADIOL/ ESTRIOL, biosynthesis/ *ESTRIOL, urine/ ESTRONE/ FEMALE/ FETAL DEATH, urine/ *FETAL DISEASES, diagnosis/ FETUS, metabolism/ GESTATIONAL AGE/ HUMAN/ INFANT MORTALITY/ INFANT, NEWBORN/ METHODS/ PLACENTA, metabolism/ PREGNANCY

Improved procedure for formation of epinephrine and norepinephrine fluorophors by the trihydroxyindole reaction. Valori C, et al. Anal Biochem 33:158-67, Jan 70
ADRENOCHROME/ ANTIOXIDANTS/ CHEMISTRY/ COPPER/ DIMERCAPROL/ DRUG STABILITY/ *EPINEPHRINE, analysis/ FLUORESCENCE/ FLUOROMETRY/ FORMALDEHYDE/ *INDOLES/ METHODS/ *NOREPINEPHRINE, analysis

CHEMISTRY, ANALYTICAL

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. J Endocr 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY, ANALYTICAL/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, analysis

CHEMISTRY, CLINICAL

Measurement of urinary free corticoids by competitive protein-binding radioassay in hypoadrenal states. Hsu TH, et al. J Clin Endocr 30:443-8, Apr 70
*ADRENAL CORTEX HORMONES, urine/ ADRENAL GLAND HYPOFUNCTION, diagnosis/ *ADRENAL GLAND HYPOFUNCTION, urine/ CARBON ISOTOPES/ CHEMISTRY, CLINICAL/ CHROMATOGRAPHY, PAPER/ CUSHING'S SYNDROME, diagnosis/ DEXAMETHASONE, diagnostic use/ HUMAN/ HYDROCARBONS, HALOGENATED/ HYDROCORTISONE, metabolism/ *HYDROCORTISONE, urine/ METABOLIC CLEARANCE RATE/ METHODS/ PITUITARY-ADRENAL FUNCTION TESTS/ *PROTEIN BINDING/ RADIOISOTOPE DILUTION TECHNIC/ TRITIUM

[Simplified detection of catecholamines in urine] Simon KH. Med Mschr 23:516-7, Nov 69 (Ger)
*CATECHOLAMINES, urine/ CHEMISTRY, CLINICAL/ HUMAN/ METHODS

CHROMATOGRAPHY

Determination of estrogens, androgens, progesterone, and related steroids in human plasma and urine. Bush IE. Advances Clin Chem 12:57-139, 1969
ADRENAL CORTEX HORMONES, biosynthesis/ *ANDROGENS, metabolism/ ANDROSTANES, analysis/ AUTOMATION/ CHROMATOGRAPHY/ ESTRIOL, analysis/ *ESTROGENS, metabolism/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, analysis/ 17-KETOSTEROIDS, analysis/ METHODS/ PREGNANEDIOL, analysis/ *PROGESTERONE, metabolism/ STEROLS, analysis/ TESTOSTERONE, blood/ TESTOSTERONE, urine

A method for the estimation of the catecholamines and their metabolites in brain tissue. Crawford TB, et al. Brit J Pharmacol 38:56-71, Jan 70
ANIMAL EXPERIMENTS/ *BRAIN CHEMISTRY/ *CATECHOLAMINES, analysis/ CATECHOLAMINES, metabolism/ CHROMATOGRAPHY/ DOPA, analysis/ DOPAMINE, analysis/ EPINEPHRINE, analysis/ FLUOROMETRY/ METHODS/ NOREPINEPHRINE, analysis/ RATS/ TYRAMINE, analysis

A simple method for the extraction of steroids from urine. Shackleton CH, et al. Clin Chim Acta 27:354-6, Feb 70
ADULT/ ANDROSTANES/ *CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ HUMAN/ INFANT/ METHODS/ *STEROIDS, isolation & purification/ STEROIDS, urine/ TRITIUM

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. J Endocr 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY, ANALYTICAL/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, analysis

Relationship of the P:O ratio to thyroid hormone content of isolated rat liver mitochondria. Heninger RW, et al. Proc Soc Exp Biol Med 133:110-3, Jan 70
ANIMAL EXPERIMENTS/ CHROMATOGRAPHY/ GLUTAMATES, metabolism/ IRON ISOTOPES/ METHODS/ *MITOCHONDRIA, LIVER, analysis/ OXIDATIVE PHOSPHORYLATION/ *OXYGEN, analysis/ *PHOSPHORUS, analysis/ RATS/ THYROID GLAND, physiology/ THYROIDECTOMY/ *THYROXINE, analysis/ *TRIIODOTHYRONINE, analysis

Radioimmunoassay of plasma estrone and estradiol. Mikhail G, et al. Steroids 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY FORMATION/ ANTIGEN-ANTIBODY REACTIONS/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ COLD/ *ESTRADIOL, blood/ ESTRADIOL, pharmacodynamics/ *ESTRONE, blood/ ESTRONE, pharmacodynamics/ FEMALE/ FSH, blood/ GONADOTROPINS, blood/ HYDROGEN-ION CONCENTRATION/ LH, blood/ MENSTRUATION/ METHODS/ PROTEIN BINDING/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SHEEP/ TEMPERATURE/ TIME FACTORS/ TRITIUM

[Separation of tetrachlorfluorescein derivatives iodinated to different degrees. I. Adsorption chromatography on aluminum oxide] Santora J, et al. Cesk Farm 18:451-6, Nov 69 (Cze)
ALKALIES, analysis/ *ALUMINUM/ *CHROMATOGRAPHY/ ENGLISH ABSTRACT/ *FLUORESCEINS, analysis/ *IODINE, analysis/ METHODS/ *OXIDES/ POTENTIOMETRY

[Rapid determination of plasma estrone, estradiol (17 beta) and estriol] Castanier M, et al. C R Acad Sci [D] (Paris) 270:843-6, 9 Feb 70 (Fre)
CHROMATOGRAPHY/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ *ESTRIOL, blood/ *ESTRONE, blood/ METHODS/ SULFONIC ACIDS/ TRITIUM

See also pages 254 - 255.

CHROMATOGRAPHY, GAS

A sensitive method for the determination of prostaglandins by gas chromatography with electron-capture detection. Jouvenaz GH, et al. Biochim Biophys Acta 202:231-4, 10 Feb 70
ANIMAL EXPERIMENTS/ *CHROMATOGRAPHY, GAS/ ELECTRONS/ MALE/ METHODS/ *PROSTAGLANDINS, analysis/ RATS/ SKIN, analysis

Assay of pregnanediol and pregnanetriol in low-titre urines by gas chromatography. Calseyde JF van de, et al. Clin Chim Acta 27:139-43, Jan 70
ACETATES/ CHROMATOGRAPHY, GAS/ COLORIMETRY/ COMPARATIVE STUDY/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, urine/ *PREGNANETRIOL, urine/ SILICON/ TIME FACTORS

A simple method for the extraction of steroids from urine. Shackleton CH, et al. Clin Chim Acta 27:354-6, Feb 70
ADULT/ ANDROSTANES/ *CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ HUMAN/ INFANT/ METHODS/ *STEROIDS, isolation & purification/ STEROIDS, urine/ TRITIUM

Separation and determination of steroids in oil solution. IV. Glc analysis of anabolic, androgenic, estrogenic and progestational steroids. Cavina G, et al. J Chromatogr 47:186-94, 4 Mar 70
*ANABOLIC STEROIDS, analysis/ *ANDROGENS, analysis/ CHOLESTANES, analysis/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, THIN LAYER/ ESTERS, analysis/ ESTRADIOL, analysis/ *ESTROGENS, analysis/ ESTRONE, analysis/ METHODS/ NANDROLONE, analysis/ *OILS, analysis/ *PROGESTATIONAL HORMONES, analysis/ PROGESTERONE, analysis/ TESTOSTERONE, analysis

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. J Endocr 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY, ANALYTICAL/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, analysis

Gas chromatographic and mass spectrometic studies of oximes derived from 20-oxosteroids. Brooks CJ, et al. Steroids 15:283-301, Feb 70
*CHROMATOGRAPHY, GAS/ METHODS/ *OXIMES, analysis/ *PREGNANES, analysis/ *SPECTRUM ANALYSIS

CHROMATOGRAPHY, ION EXCHANGE

A simple method for the extraction of steroids from urine. Shackleton CH, et al. Clin Chim Acta 27:354-6, Feb 70
ADULT/ ANDROSTANES/ *CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ HUMAN/ INFANT/ METHODS/ *STEROIDS, isolation & purification/ STEROIDS, urine/ TRITIUM

A radioimmunoassay for rhesus monkey luteinizing hormone (RhLH). Monroe SE, et al. Endocrinology 86:1012-8, May 70
BIOLOGICAL ASSAY/ CASTRATION/ CHLORAMINES/ CHROMATOGRAPHY, ION EXCHANGE/ FSH, analysis/ FSH, blood/ GEL FILTRATION/ GONADOTROPINS, CHORIONIC, blood/ GUINEA PIGS/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ LH, analysis/ *LH, blood/ LH, standards/ METHODS/ *MONKEYS/ PITUITARY GLAND, analysis/ RABBITS/ *RADIOIMMUNOASSAY/ THYROTROPIN, analysis

An improved procedure for separation of catecholamines from plasma. Valori C, et al. Ital J Biochem 18:394-405, Sep-Oct 69
ALUMINUM/ BORIC ACIDS/ CHROMATOGRAPHY, ION EXCHANGE/ EPINEPHRINE, blood/ *EPINEPHRINE, isolation & purification/ HYDROGEN-ION CONCENTRATION/ METHODS/ NOREPINEPHRINE, blood/ *NOREPINEPHRINE, isolation & purification/ OXIDES/ PERCHLORIC ACIDS/ TIME FACTORS

[Free nucleotides of erythrocytes in anemias in children. Results of 64 examinations] Orsini A, et al. Arch Franc Pediat 26:993-1002, 1969 (Fre)
*ADENINE NUCLEOTIDES, blood/ *ADENOSINE TRIPHOSPHATE, blood/ *ANEMIA, HEMOLYTIC, ACQUIRED, blood/ *ANEMIA, HEMOLYTIC, CONGENITAL, blood/ ANEMIA, SICKLE CELL, blood/ ANEMIA, SPLENIC, blood/ CHILD/ CHROMATOGRAPHY, ION EXCHANGE/ ELLIPTOCYTOSIS, HEREDITARY, blood/ *ERYTHROCYTES, analysis/ GLUCOSEPHOSPHATE DEHY- DROGENASE DEFICIENCY, blood/ HEMOGLOBIN C/ HEMOGLOBIN C DISEASE/ *HEMOGLOBINOPATHIES, blood/ HUMAN/ METHODS/ *NAD, blood/ *NADP, blood/ SPECTROPHOTOMETRY/ SPHEROCYTOSIS, HEREDITARY, blood/ THALASSEMIA, blood

CHROMATOGRAPHY, PAPER

N-acetylnormetanephrine and N-acetylmetanephrine in urine from patients with neuroblastoma. Borud O, et al. Clin Chim Acta 27:552-4, Mar 70
*CATECHOLAMINES, urine/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ HUMAN/ METHODS/ *NEUROBLASTOMA, urine/ NORMETANEPHRINE, urine/ STAINS AND STAINING

Evaluation of angiotension II metabolism in sheep by radioimmunoassay. Cain MD, et al. Endocrinology 86:955-64, May 70
ADRENALECTOMY/ ANGIOTENSIN, biosynthesis/ *ANGIOTENSIN, blood/ ANGIOTENSIN, metabolism/ ANGIOTENSIN AMIDE, pharmacodynamics/ ANIMAL EXPERIMENTS/ BLOOD PRESSURE/ CHROMATOGRAPHY, PAPER/ HYPONATREMIA/ LUNG, physiology/ METABOLIC CLEARANCE RATE/ METHODS/ NEPHRECTOMY/ *RADIOIMMUNOASSAY/ *RENIN, blood/ RENIN, pharmacodynamics/ SHEEP/ *SODIUM, metabolism/ TIME FACTORS

Measurement of urinary free corticoids by competitive protein-binding radioassay in hypoadrenal states. Hsu TH, et al. J Clin Endocr 30:443-8, Apr 70
*ADRENAL CORTEX HORMONES, urine/ ADRENAL GLAND HYPOFUNCTION, diagnosis/ *ADRENAL GLAND HYPOFUNCTION, urine/ CARBON ISOTOPES/ CHEMISTRY, CLINICAL/ CHROMATOGRAPHY, PAPER/ CUSHING'S SYNDROME, diagnosis/ DEXAMETHASONE, diagnostic use/ HUMAN/ HYDROCARBONS, HALOGENATED/ HYDROCORTISONE, metabolism/ *HYDROCORTISONE, urine/ METABOLIC CLEARANCE RATE/ METHODS/ PITUITARY-ADRENAL FUNCTION TESTS/ *PROTEIN BINDING/ RADIOISOTOPE DILUTION TECHNIC/ TRITIUM

Appraisal of the double isotope dilution techniques for the measurement of plasma aldosterone. Bayard F, et al. J Lab Clin Med 75:347-54, Feb 70
*ALDOSTERONE, blood/ CHROMATOGRAPHY, PAPER/ HUMAN/ INDICATORS AND REAGENTS/ METHODS/ OXIDATION-REDUCTION/ *RADIOISOTOPE DILUTION TECHNIC/ RADIOMETRY/ TRITIUM

Plasma estradiol determined with a competitive protein binding method. Mayes D, et al. Steroids 15:389-403, Mar 70

See also pages 254 - 255.

AMMONIUM COMPOUNDS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ MALE/ MENSTRUATION/ METHODS/ PREGNANCY/ *PROTEIN BINDING/ SERUM ALBUMIN, BOVINE, metabolism/ SERUM GLOBULINS/ SULFATES/ TESTOSTERONE, metabolism/ TRITIUM

Extraction of plasma insulin in radioimmunoassay for removal of nonspecific inhibitor and of circulating insulin antibody. Oneda A, et al. Tohoku J Exp Med 100:75-84, Jan 70
ACETONE/ ADOLESCENCE/ ADULT/ ALCOHOL, ETHYL/ BLOOD SUGAR, analysis/ CHILD, PRESCHOOL/ CHROMATOGRAPHY, PAPER/ DIABETES MELLITUS, blood/ DIABETES MELLITUS, immunology/ FEMALE/ HUMAN/ IMMUNE SERUMS/ IMMUNOELECTROPHORESIS/ *INSULIN, blood/ *INSULIN ANTIBODIES, analysis/ IODINE ISOTOPES/ MALE/ METHODS/ MIDDLE AGE/ RABBITS/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, analysis/ SERUM GLOBULINS, analysis

CHROMATOGRAPHY, THIN LAYER

N-acetylnormetanephrine and N-acetylmetanephrine in urine from patients with neuroblastoma. Borud O, et al. Clin Chim Acta 27:552-4, Mar 70
*CATECHOLAMINES, urine/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ HUMAN/ METHODS/ *NEUROBLASTOMA, urine/ NORMETANEPHRINE, urine/ STAINS AND STAINING

Separation and determination of steroids in oil solution. IV. Glc analysis of anabolic, androgenic, estrogenic and progestational steroids. Cavina G, et al. J Chromatogr 47:186-94, 4 Mar 70
*ANABOLIC STEROIDS, analysis/ *ANDROGENS, analysis/ CHOLESTANES, analysis/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, THIN LAYER/ ESTERS, analysis/ ESTRADIOL, analysis/ *ESTROGENS, analysis/ ESTRONE, analysis/ METHODS/ NANDROLONE, analysis/ *OILS, analysis/ *PROGESTATIONAL HORMONES, analysis/ PROGESTERONE, analysis/ TESTOSTERONE, analysis

Plasma estradiol determined with a competitive protein binding method. Mayes D, et al. Steroids 15:389-403, Mar 70
AMMONIUM COMPOUNDS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ FEMALE/ HUMAN/ MALE/ MENSTRUATION/ METHODS/ PREGNANCY/ *PROTEIN BINDING/ SERUM ALBUMIN, BOVINE, metabolism/ SERUM GLOBULINS/ SULFATES/ TESTOSTERONE, metabolism/ TRITIUM

Identification of 11-beta,17-alpha-dihydroxy-3, 20-dioxo-4-pregnene-21-al-1,2-3H (21-dehydrocortisol-1, 2-3H) and 11-beta-hydroxy-4-androstene-3, 17-dione-1, 2-3H as contaminants in preparations of cortisol. Monder C, et al. Steroids 15:1-11, Jan 70
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INDICATOR DILUTION TECHNICS

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